

5' gatcagtttcgagttgtccacttgaagttctgttgaaaaaccaaaccacccctccaaaaatATGCTCTCTGAAGTCCGACGA
M S L K S D E
AGTTTTCGCCAAGATCGCTAAGCGTCTGGAGAGCATCGACCCGCCAACCGTCAGGTTCGAGCACGTGTACAAGTTCAGA
V F A K I A K R L E S I D P A N R Q V E H V Y K F R
ATCACCCAGGGTGGCAAGGTTGTCAAGAACTGGGTTATGGATCTGAAGAACGTCAAGCTGGTCGAGTCCGACGATGCCG
I T Q G G K V V K N W V M D L K N V K L V E S D D A A
CCGAGGCCACCCTGACCATGGAGGATGACATCATGTTCCGCATCGGAACCGGTGCCCTGCCCGCCAAGGAAGCCATGGC
E A T L T M E D D I M F A I G T G A L P A K E A M A
CCAGGACAAGATGGAAGTCGATGGACAAGTTGAGCTGATCTTCCTGCTGGAGCCATTTCATTGCCTCGCTGAAGTAAaat
Q D K M E V D G Q V E L I F L L E P F I A S L K (SEQ ID NO:3)
gcgtgacgcgcccttgtgaataccaatcattgcatgtgttgctcgtttaatcagagcgaatgtcatgtcatccaaa
ctactgtgttgtaacttattatcttctgtatcgcgatttcggcatcattaaaacgtatcttgttaaagtaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaa3' (SEQ ID NO:2)

FIG. 1

<i>Aedes</i>	1	-----MSLSKSEVFAKIAKRLESI----	DPANRQVEHVYKFRITQG-GKVVKNWVMDLKNVNLVES	*****
<i>Anopheles</i>	1	-----YCPSAQRVRQLL.A....P..E.....	N.....QQ.....Q.N..T...T..L...A...T.G	
rat	1		SSAGDGF.ANLI.KE.E.K..EEG--EEFVKKIGGIFA.KV.D.P...EAT.V.V..G.GSVL	
human	1		SSASDGF.ANLI.KE.E.K..EEG--EQFVKKIGGIFA.KV.D.P...AT.V.V..G.GSVI	
DmSCP-X	420	-----DGF.VAPLLKLEQAMQEDK--	NLIEK.RAI.G.KVN..PN.QTGF..I.A.QG.GKII	
CG11151	1	-----Q..A..Q..IDG.KEN--	EAKA.KA.NG.FLYK.KD...A.E.TL.C..A.AY.G	
CG12269	1	-----M...IIE.RNK.KES--	R.T.VNTFQ.NFTDAD.NLI..MA..IYEGSATS-	
nematodes	316	-----	VAS.AMD--EHLV.LIGR.FQINCKD---IEP-ICI..HGSGSAY	
yeast	1	-----MSVEVDGFNASPL.KELNEG.ADKAKAQE.VKA.NAIIVITLKNK-EGKEQS..L...KAGTLAK		
+				
consensus		-----	PL.QELEEA VKELG--EELVKK.GAILE.NVKD--TGKEDA.TI...G.G.VY	** * * *
+				
<i>Aedes</i>	57	-DDA---AEATITMEDDIMFAIGTGALPAKEAMAQDKMEVDGQVELIFLLEPFIASLK-----		(SEQ ID NO:3)
<i>Anopheles</i>	70	-GP-----K.....M.....L...LD.E.....K-----		(SEQ ID NO:4)
rat	63	P.SDK-K.DC.I..A.SDLL.LM..KMN PQS.FF.G.LKIA.NMG.AMK.QSLQLQPDK-----AKL		(SEQ ID NO:5)
human	63	PNSDK-K.DC.I..A.SDFL.LM..KMN PQS.FF.G.LKIT.NMG.AMK.QNLQLQPGN-----AKL		(SEQ ID NO:6)
DmSCP-X	479	FNGTQ-KCDV.FIIS..DV.ELL..K..PQK.FF.G.IKIQ.NMGFAMK.MDLQDPPKAGSRLRSKL		(SEQ ID NO:7)
CG11151	58	-PAQGIKVDI...VA.ED.VD.AL.K.NPQA.FMKG.LKIA.NIM.TQK.A.LLKT-----AKL		(SEQ ID NO:8)
CG12269	55	-----VD.QV.IS-EDFYL.V..KQKTFQ.VLQ.E.AKI..DE.A.NKMLEKFRINSON-----		(SEQ ID NO:9)
nematodes	357	-KGTSLNPDPVVFETSLEVFGLK.LKEVSPVTVY.NGNLKVK.SIQDAMQ.KHLVERMSD-----WL		(SEQ ID NO:10)
yeast	65	V.G.VPKGDVQ.ILK.VDFVKLANNKVNGQ.LFMNG.LKVK.NMMKATAI.SVFKKLDP---RPKL		(SEQ ID NO:11)
*** ** + * * * * *				
consensus		GGG.ANK.DV.FSAS.SDFLK.L..K.DPQT.FM.G.LKIK.NMM.AMK.MAVLKKFL-----		

FIG. 2